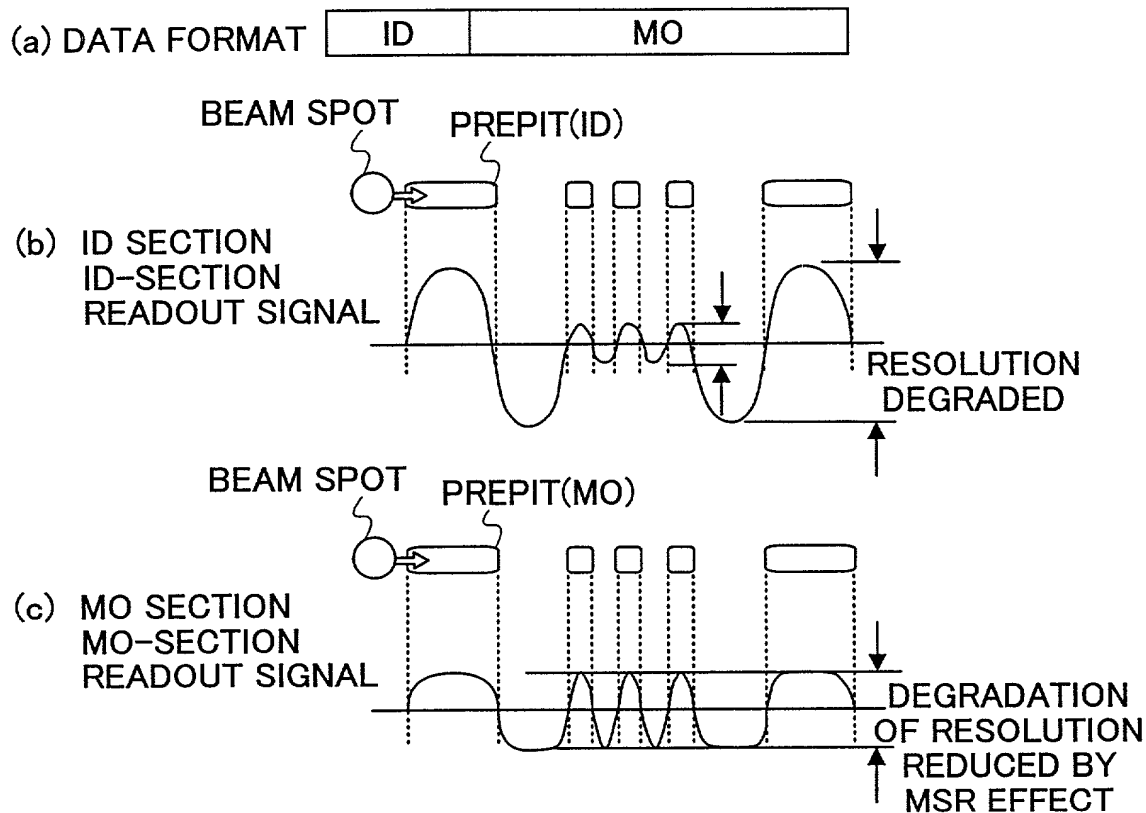


FIG.1



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FIG.2

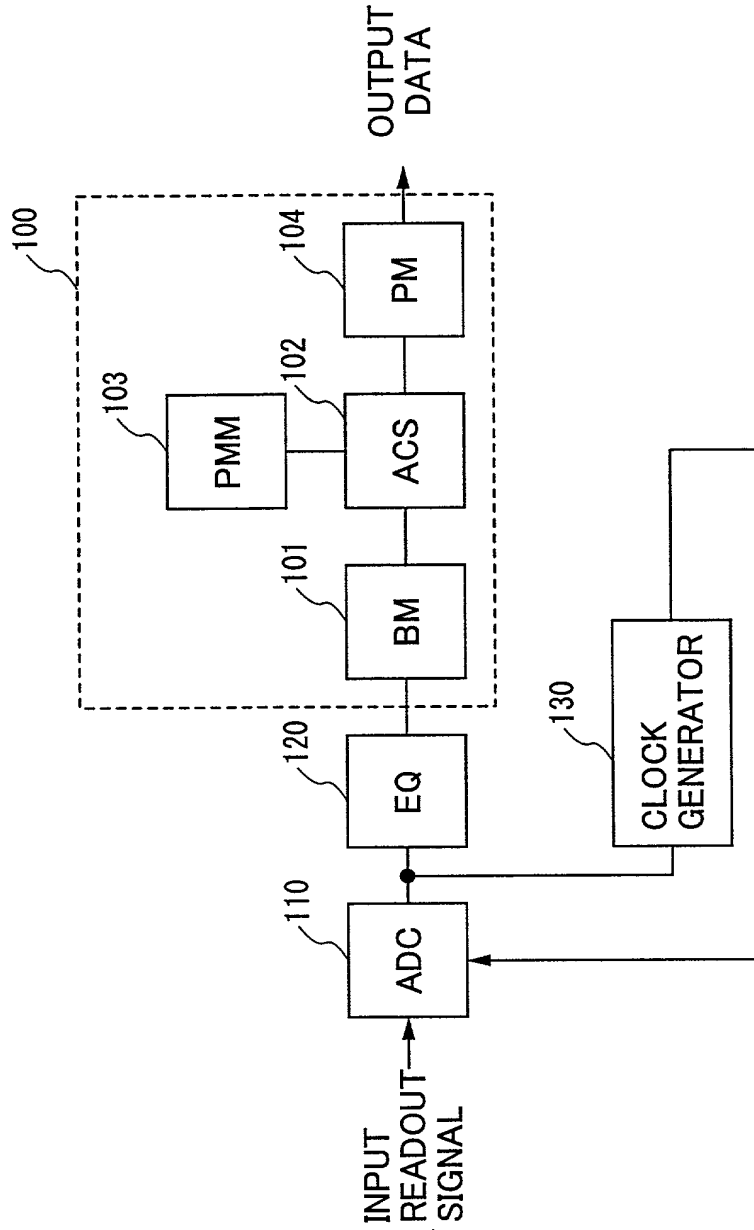
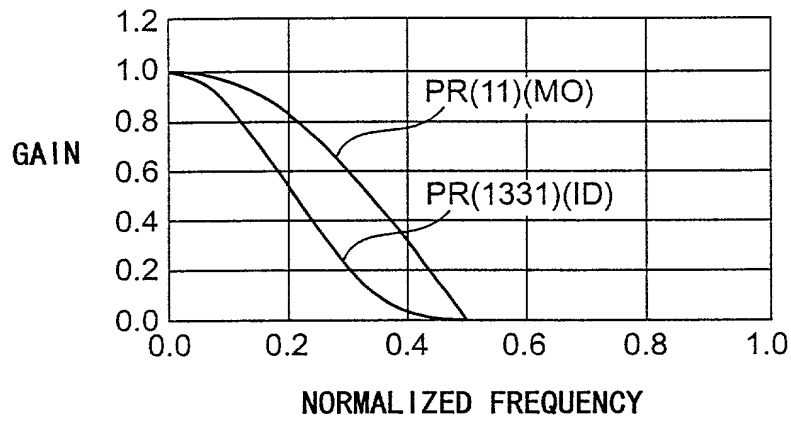


FIG. 3



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FIG. 4A

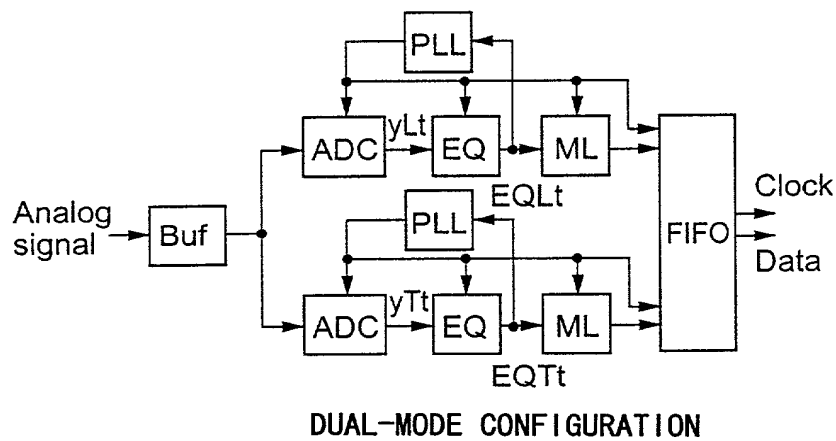


FIG. 4B

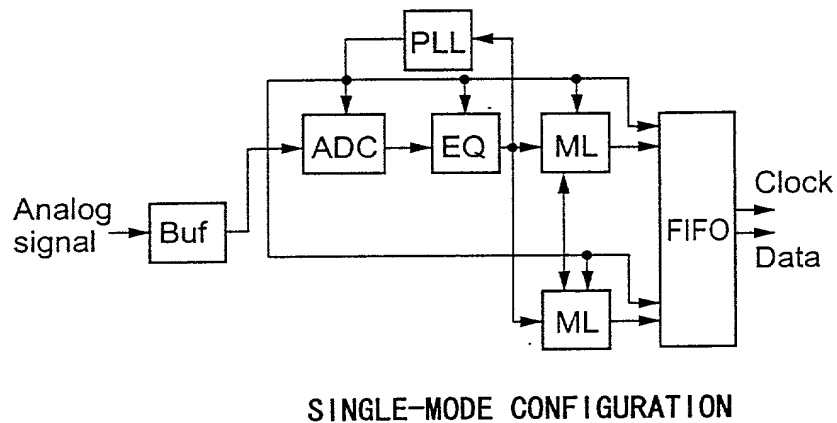


FIG.5

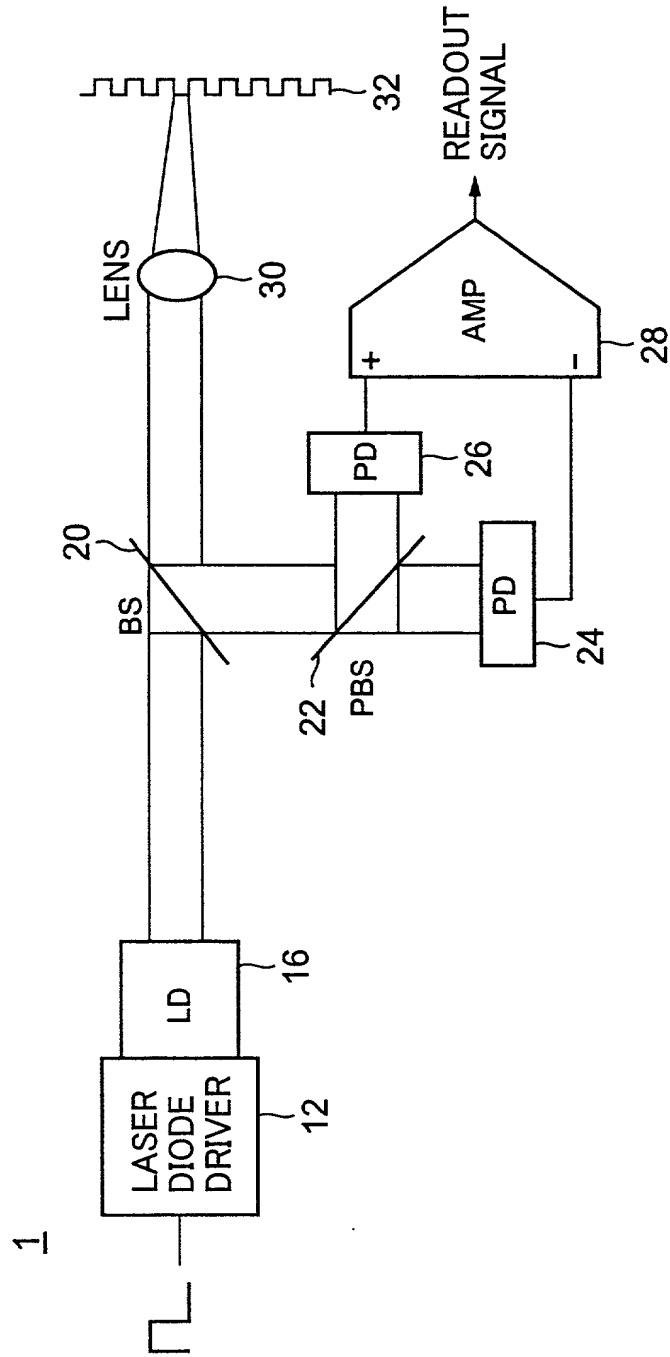


FIG.6

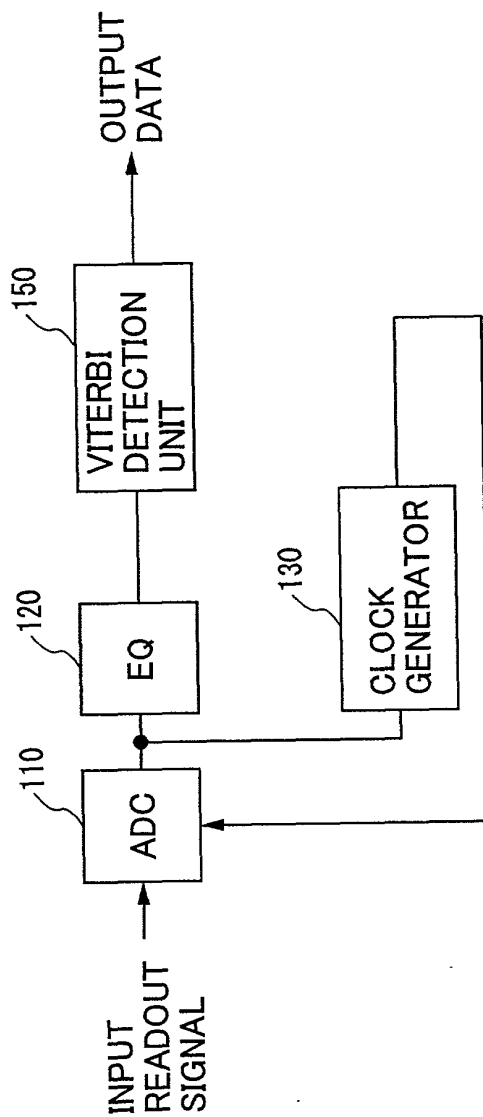


FIG. 7A

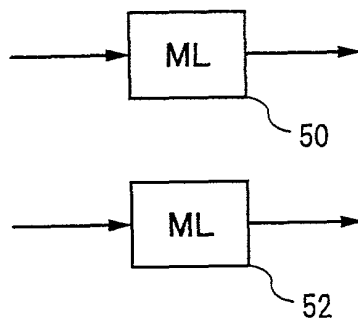
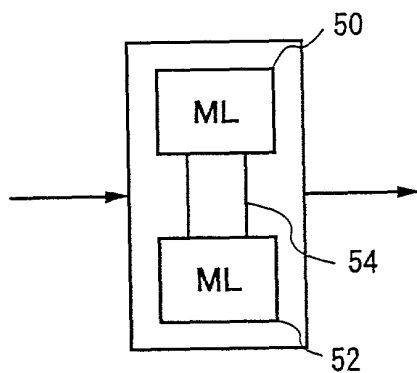
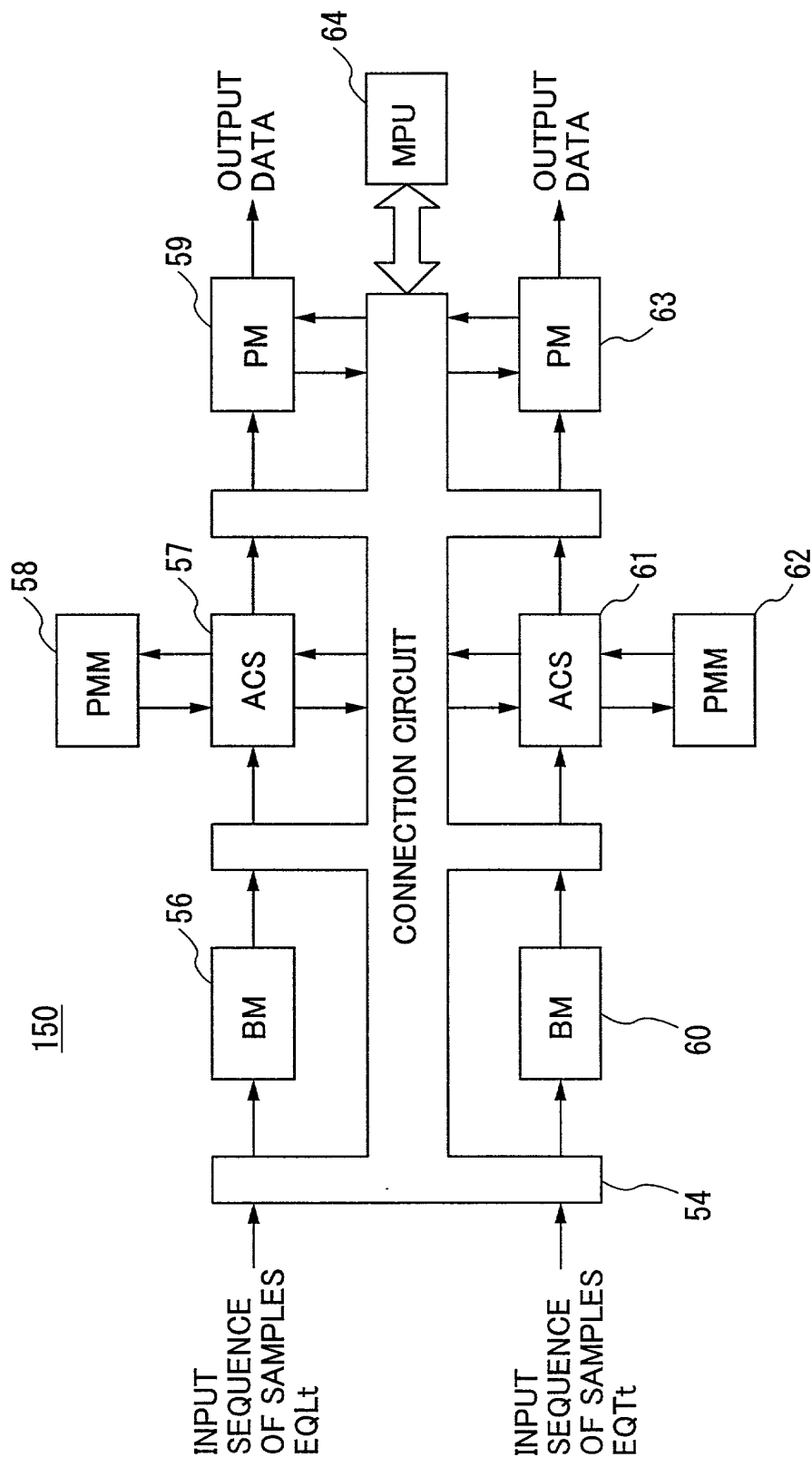


FIG. 7B



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FIG.8



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FIG. 9A

IN CASE OF
 PR(1, 1, 0, X)

TIME	t-3	t-2	t-1	t	Ph
STATE SLO X	0	0	0		SLO PLO=0
SL1 X	1	0	0		SLO PL1=0
SL2 X	0	1	0		SL1
SL3 X	1	1	0		SL1 PL3=1
SLO X	0	0	1		SL2 PL4=1
SL1 X	1	0	1		SL2
SL2 X	0	1	1		SL3 PL6=2
SL3 X	1	1	1		SL3 PL7=2
<hr/>					
STO X	0	0	0		STO PTO=0
ST1 X	1	0	0		STO PT1=0
ST2 X	0	1	0		ST1
ST3 X	1	1	0		ST1 PT3=1
STO X	0	0	1		ST2 PT4=1
ST1 X	1	0	1		ST2
ST2 X	0	1	1		ST3 PT6=2
ST3 X	1	1	1		ST3 PT7=2

DUAL MODE

FIG. 9B

IN CASE OF
 PR(1, 3, 3, 1)

TIME	t-3	t-2	t-1	t	Ph
STATE SLO	0	0	0	0	SLO PLO=0
SL1	0	1	0	0	STO PL1=0
SL2	0	0	1	0	SL1
SL3	0	1	1	0	ST1 PL3=6
SLO	0	0	0	1	SL2 PL4=1
SL1	0	1	0	1	ST2
SL2	0	0	1	1	SL3 PL6=4
SL3	0	1	1	1	ST3 PL7=7
<hr/>					
STO	1	0	0	0	SLO PTO=1
ST1	1	1	0	0	STO PT1=4
ST2	1	0	1	0	SL1
ST3	1	1	1	0	ST1 PT3=7
STO	1	0	0	1	SL2 PT4=1
ST1	1	1	0	1	ST2
ST2	1	0	1	1	SL3
ST3	1	1	1	1	ST3 PT7=8

SINGLE MODE

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FIG. 10A

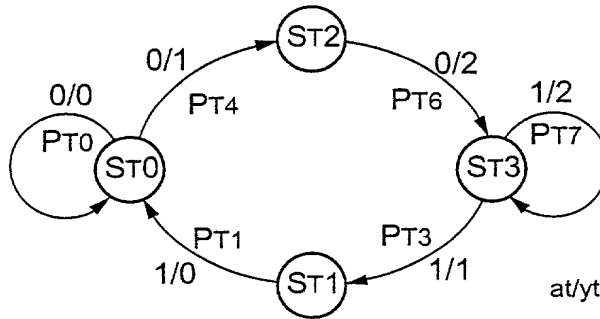
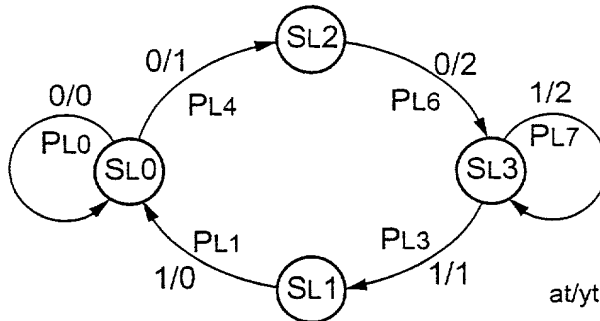
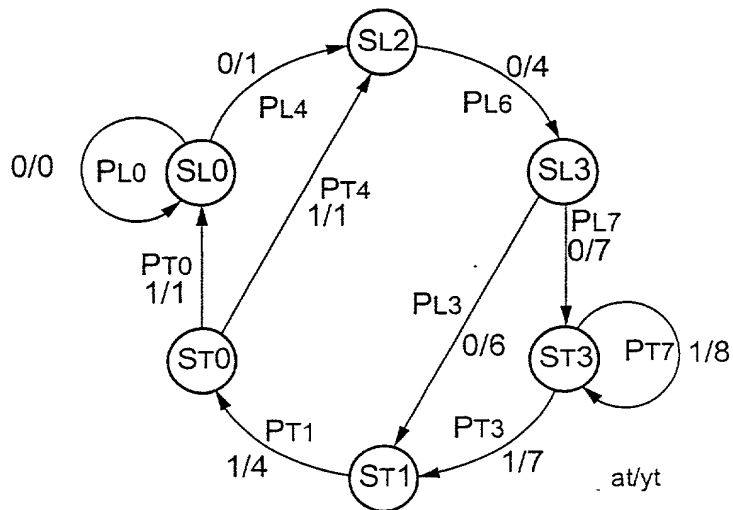


FIG. 10B



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FIG. 11A

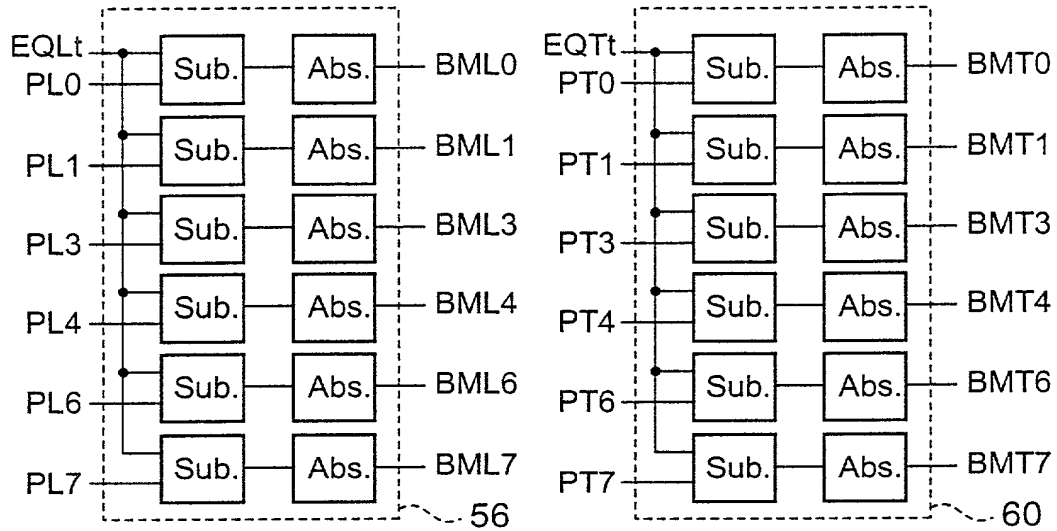


FIG. 11B

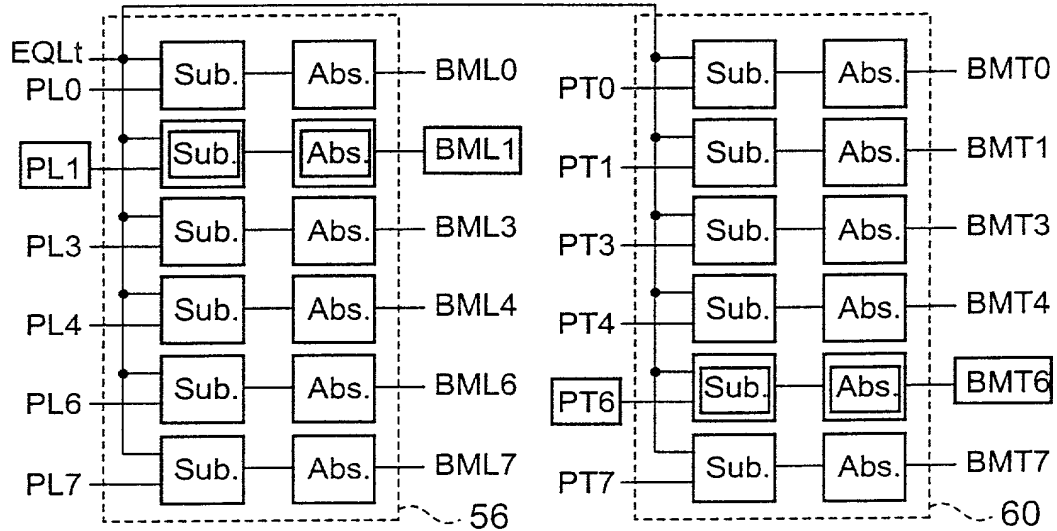


FIG. 11A

FIG. 12

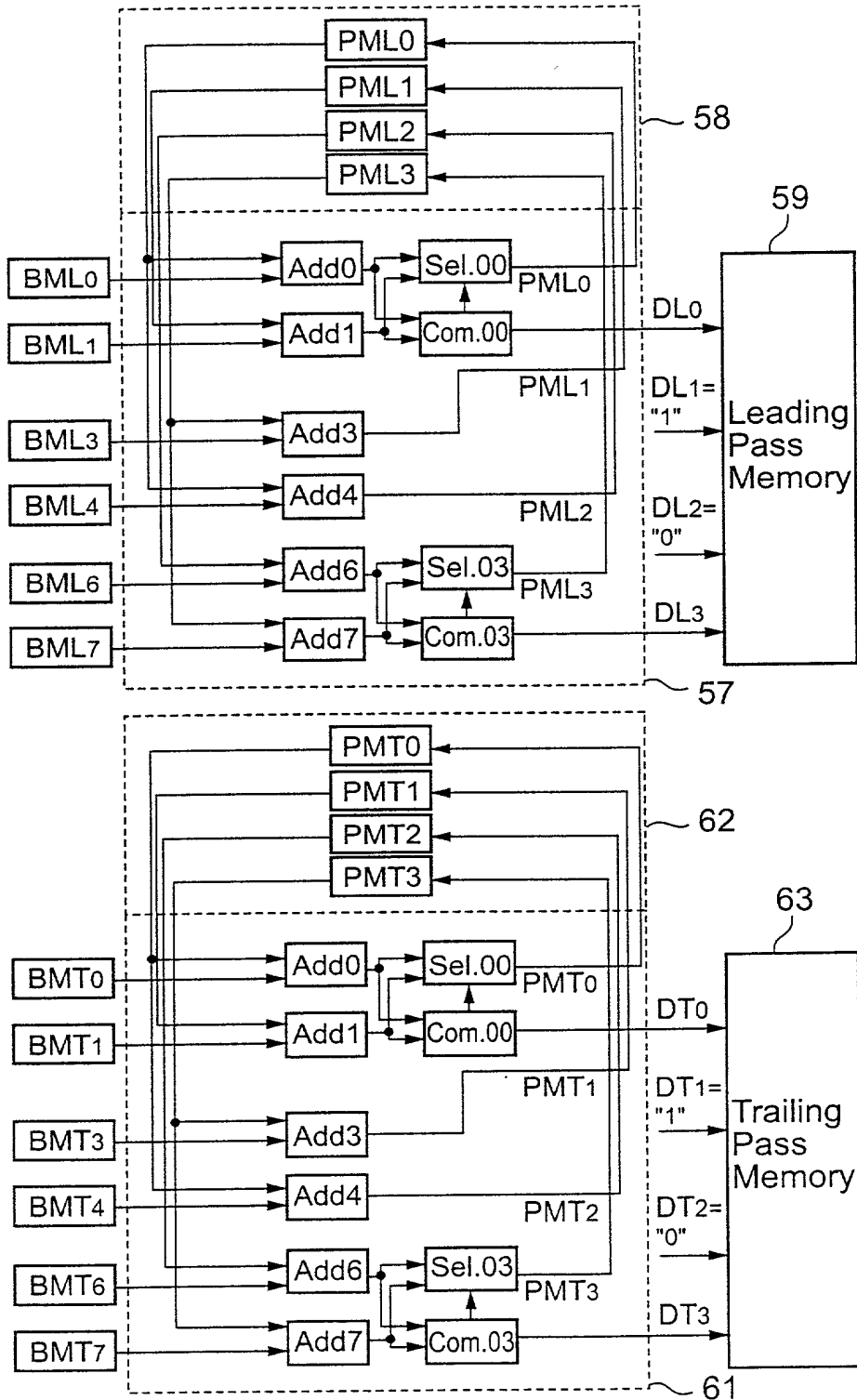


FIG. 12

FIG. 13A

$PML(t, 0) = \min [PML(t-1, 0) + BML0, PML(t-1, 1) + BML1]$;DL0
 $PML(t, 1) = PML(t-1, 3) + BML3$;DL1
 $PML(t, 2) = PML(t-1, 0) + BML4$;DL2
 $PML(t, 3) = \min [PML(t-1, 2) + BML6, PML(t-1, 3) + BML7]$;DL3

 $PMT(t, 0) = \min [PMT(t-1, 0) + BMT0, PMT(t-1, 1) + BMT1]$;DT0
 $PMT(t, 1) = PMT(t-1, 3) + BMT3$;DT1
 $PMT(t, 2) = PMT(t-1, 0) + BMT4$;DT2
 $PMT(t, 3) = \min [PMT(t-1, 2) + BMT6, PMT(t-1, 3) + BMT7]$;DT3

FIG. 13B

$PML(t, 0) = \min [PML(t-1, 0) + BML0, PMT(t-1, 0) + BMT0]$;DL0
 $PML(t, 2) = \min [PML(t-1, 0) + BML4, PMT(t-1, 0) + BMT4]$;DT0
 $PML(t, 3) = PML(t-1, 2) + BML6$;DT2
 $PMT(t, 0) = PMT(t-1, 1) + BMT1$;DL1
 $PMT(t, 1) = \min [PML(t-1, 3) + BML3, PMT(t-1, 3) + BMT3]$;DL3
 $PMT(t, 3) = \min [PML(t-1, 3) + BML7, PMT(t-1, 3) + BMT7]$;DT3

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FIG. 14

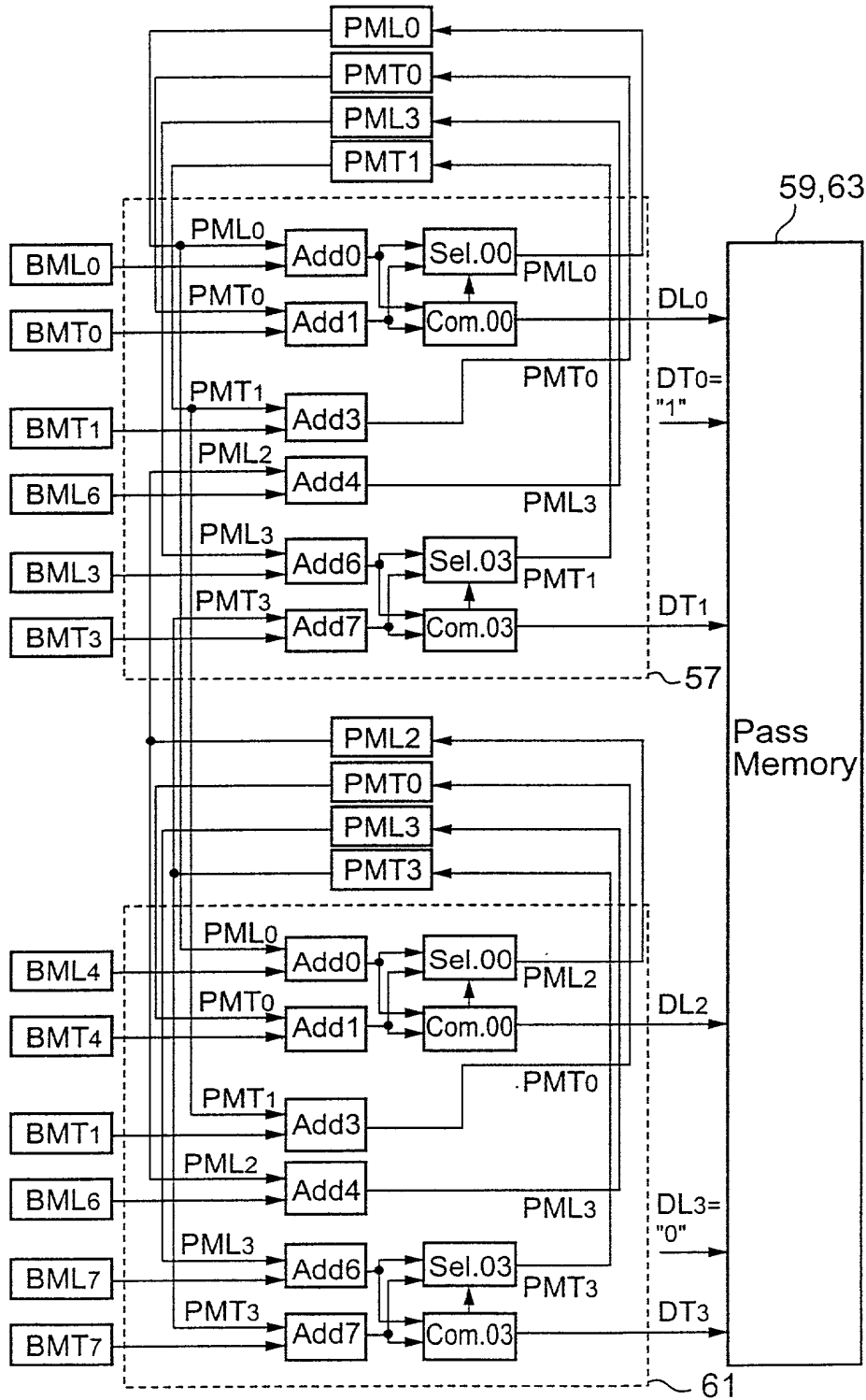


FIG. 15

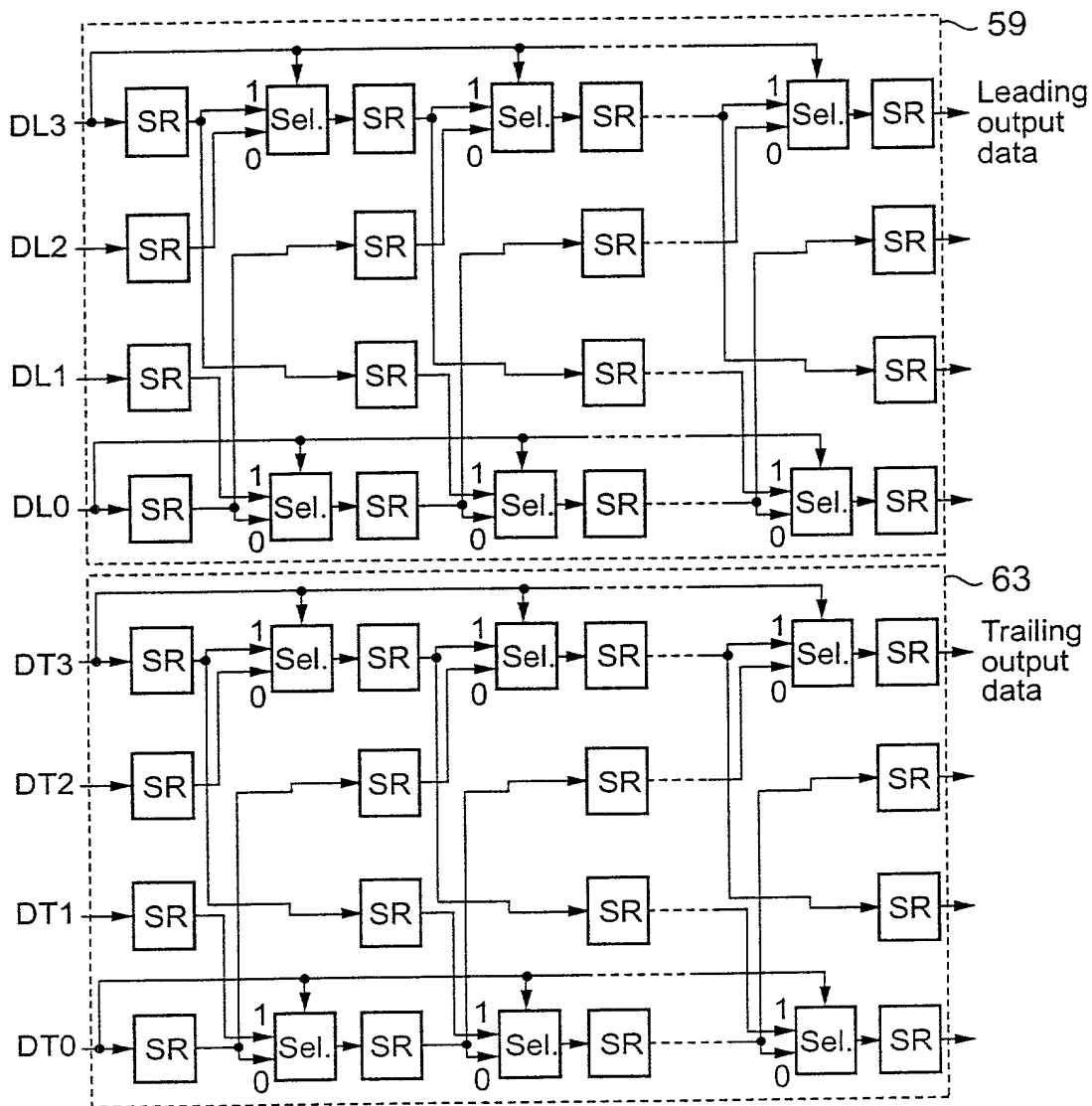


FIG. 16

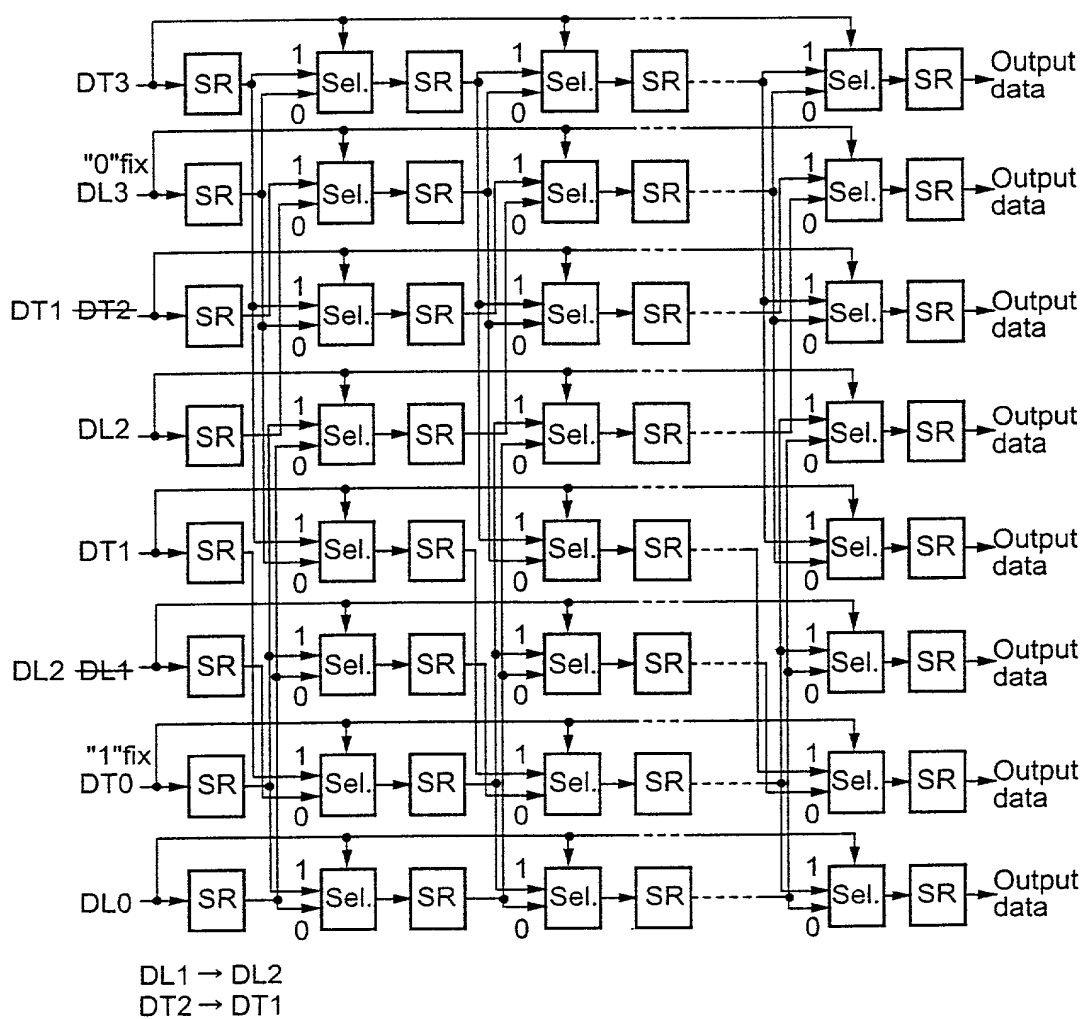


FIG. 16

FIG.17

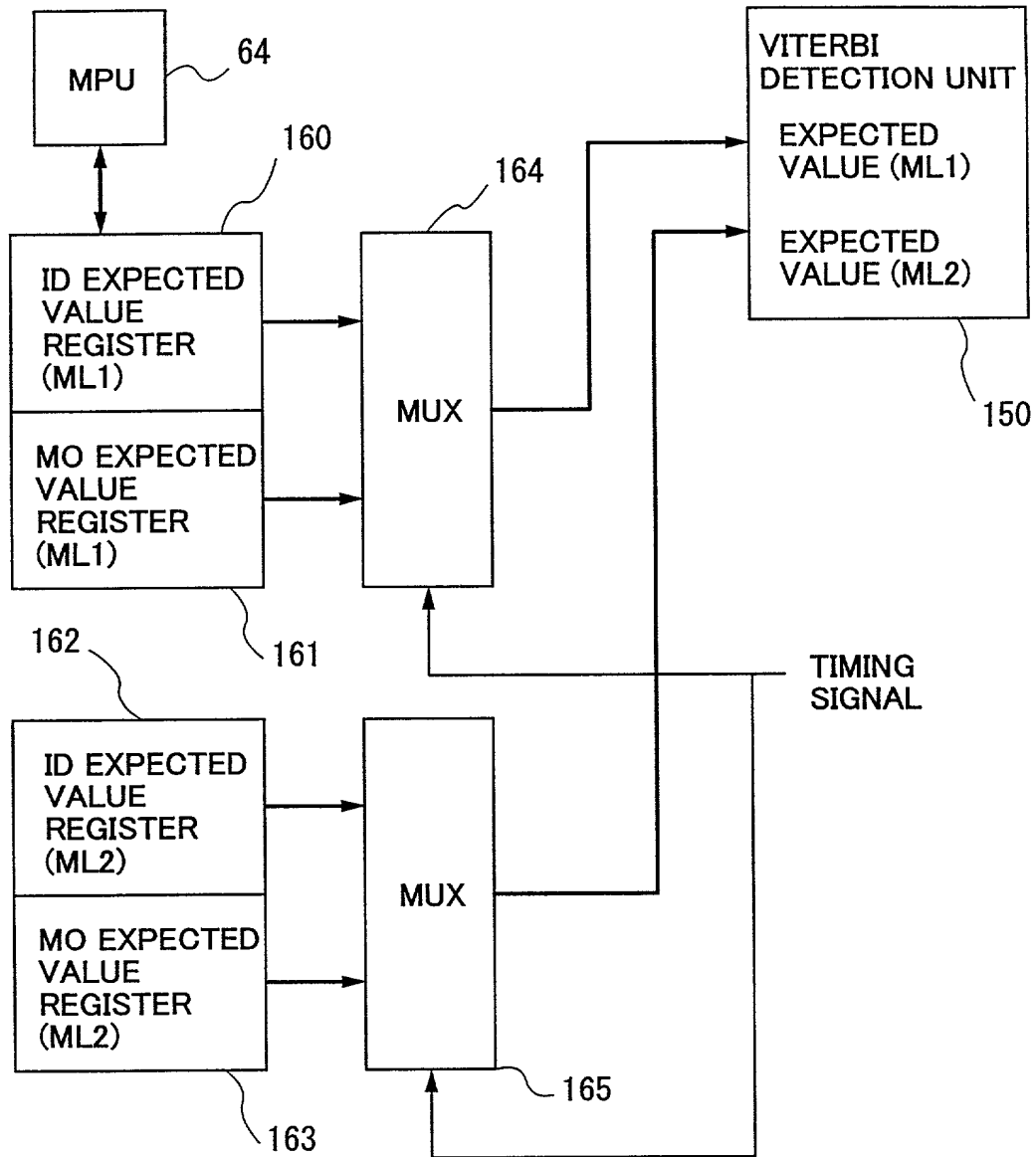


FIG. 17

FIG.18

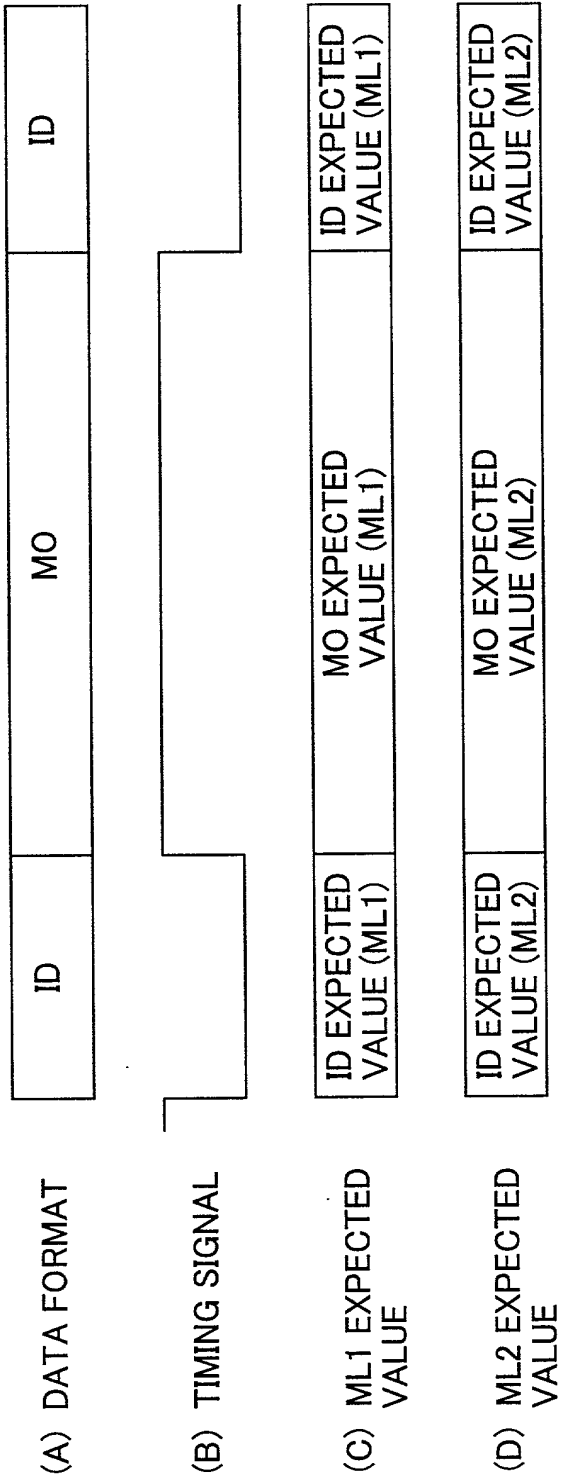


FIG. 19A

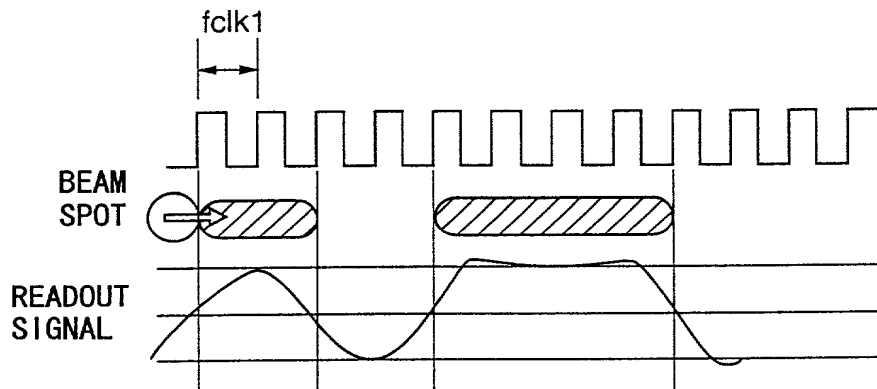


FIG. 19B

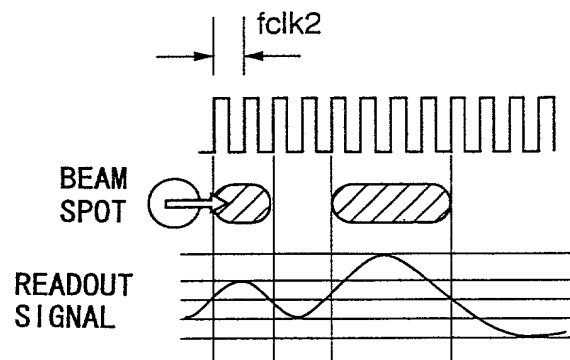


FIG. 19A